

Part 1

solenoid connected to a galvanometer with a magnet

- play and observe
- predict the direction of the current given the pole of the magnet and the velocity

Part 2

find the lowest voltage that the motor will lift the load
record 5 values as you remove 1/5 of the load each time

I(A)	V(V)	back emf(V)

V(V) _____ I(A) _____ no rotation

$$r = V/I$$

$$\text{back emf(V)} = V - Ir$$

Part 3

build a monopole motor

<https://www.youtube.com/watch?v=K2qHgw6ZLDA>

work on specimen paper 2

<http://physics-pages.wikispaces.com/IB%20Resources>